NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



25X1

basic imagery interpretation report

Komsomolsk Shipyard Amur 199	
(Shipyard Activities,	25X1
	25X1
STRATEGIC WEAPONS INDUSTRIAL FACILITIES USSR	25X1

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MAP REFERENCE		,					
SAC. USATC, Se	ries 200, Sheet 0204	I-8, scale 1:200	,000				
LATEST IMAGERY USED			NEGATION D	DATE (If required)			
			NA				25 <b>X</b> 1
		AB	STRACT				
USSR, from KEYHOLE image 2. (TSR) Sig two V-III nuclear Also, probable sub	ry covering the ship gnificant events the r-powered attack somarine reactor vau	oyard during that have occursubmarines (S	It up nis period was us red since the p SNs) and one were first identi	dates a previous sed in the prepara previous report i India-class auxi fied.	NPIC report tion of this re nclude the la liary submari	All usable port. unchings of the (SSAG).	25)
III SSNs. A the identifying feat Leningrad between V-II SSN	ature for the V-III	drop-shaped p designation. di aterline length	od atop the up The V-II (poss d not receive the of the V-III	per rudder on the libly modified) re the teardrop-shape is approximately	ne lengthened eported as bei ed pod and is 102 meters a	V-II hull is ing launched s assessed as as compared	25) 25)
•	report contains 13 a	annotated phot	tographs and thi	ee tables.			
		BASIC I	DESCRIPTIO	DN			
Tables 1 and 2 p	gure 1 is an overa present revised pro ctional areas are app	duction inforr	nation on V-II	and V-III SSNs	through 197	9. Reporting	
SSBN Producti	on						
	o evidence of nucl yard during the rep		pallistic missile	submarine (SSBN	) production	was seen at	
V-III Productio	on						
out, and transferr reporting period. when positioning of the transporter dock ARD(T) was obs	s during the previ- ted to Petrovka Na Initial launch prep the ends of the late transporter dock- rests during launcerved along the s	aval Base and parations for unch rails in —ARD(T). The ching was in outhside of t	Shipyard the third V-III front of building launch support place and alighe fitting-out p	for f SSN at Komson agway 3 were sep ort device (LSD) and with launch oier at reporting	inal fitting-ounolsk were obsarated in pre on which the rail 3. On position (RP	at during the oserved on eparation for bow of the the object that the object t	25) 25) 25) 25)
India auxiliary su the launch basin the V-III St tunnel through	keel block arrang bmarine (SSAG) l- was flooded and SN was launched a the stern pod (Fi	aunched just the ARD(T) and placed un the SSN	one or two wee was aligned wit der the panel t was observed i	eks earlier from the the buildingway 3 unnel. The SSN n the transporter	ouildingway 2 . Between remained und dock with ca	. By der the panel anvas draped	25) 25) 25) 25)
just outside the s		was proba	ably used to esc	cort or tow the A	RD(T) and V	V-III SSN to	25)
	y under its own pov	-		on the Submaille	, completed l	ns transit to	25)
retrovka, probabi				ed to the shipya			2

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Table 1. Production of V-II SSN

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Unit Number	Launch Date	ConstructionSite	
1		Gorkiy	2
2		Gorkiy	
3		Leningrad	
4		Gorkiy	
5		Leningrad	
6		Gorkiy	
7		Leningrad	

Table 2.
Production of V-III SSN

This table in its entirety is classified TOP SECRET RUFF

Construction Site	Launch Date	Unit Number
Leningrad		1
Komsomolsk (way 5)		2
Komsomolsk (way 4)		3
Komsomolsk (way 3)		4
Leningrad		5
Komsomolsk (way 5)		6

indication of the third submarine launch during 1979 occurred on when the ends of the launch rails were observed separated. Cloud cover over part of the launch basin precluded observation of the	25 <b>X</b> 1
LSD; however, it may have been aligned with launch rail 5 on	25X1
remained in the ARD(T) through the dock had moved to the south side of	25 <b>X</b> 1
RP 14. The cranes on the pier were utilized to replace the launch dollies with keel blocks. On	25 <b>X</b> 1
two indications were seen of the impending transfer of the V-III up the Amur River: 1) the transporter	
dock with the V-III keel block arrangement had moved back to the north side of the fitting-out pier in	
preparation for positioning of the submarine; and 2) a Yurka MSF was again observed anchored in the	
Amur River near the shipyard. A Yelva-class diving tender (YDT) and a tug had joined the MSF by the next day for towing/escort duties. By all of these units had departed the area, thus completing	05.74
next day for towing/escort duties. By all of these units had departed the area, thus completing the third submarine launch cycle of the season for this Pacific Fleet shipyard. The V-III arrived at	25 <b>X</b> 1
Petrovka for its final fitting-out by early November. Between the ARD(T)	25 <b>X</b> 1
had returned to the shipyard. On the LSD was observed in the ARD(T) along the south side	25 <b>X</b> 1
of the fitting-out pier. The basin and immediate area of the Amur River were frozen in for the winter.	
India-Class SSAG Production	
India-Class SSAG Production  9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of	
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside.	25 <b>X</b> 1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer	25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between	25X1 25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between The first and second SSAGs are identically configured; however, there are some subtle dimensional	25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between	25X1 25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between The first and second SSAGs are identically configured; however, there are some subtle dimensional	25X1 25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between The first and second SSAGs are identically configured; however, there are some subtle dimensional differences (Table 3), the most notable being the length of the submersible wells.	25X1 25X1 25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between The first and second SSAGs are identically configured; however, there are some subtle dimensional differences (Table 3), the most notable being the length of the submersible wells.  10. (TSR) On the end of the rails at launchway 2 were separated indicating initial launch	25X1 25X1 25X1 25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between The first and second SSAGs are identically configured; however, there are some subtle dimensional differences (Table 3), the most notable being the length of the submersible wells.  10. (TSR) On the end of the rails at launchway 2 were separated indicating initial launch preparations. By the ARD(T) was aligned with rail 2 and the launch basin was flooded. On	25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1
9. (TSR) Two India-class SSAG well-deck sections (Figure 3) remained in open storage in area A of the shipyard through Section A was outside and inside. Section B was outside and inside. Both sections were no longer observed on The launch of the second India SSAG occurred at Komsomolsk between The first and second SSAGs are identically configured; however, there are some subtle dimensional differences (Table 3), the most notable being the length of the submersible wells.  10. (TSR) On the end of the rails at launchway 2 were separated indicating initial launch preparations. By the ARD(T) was aligned with rail 2 and the launch basin was flooded. On the SSAG was seen along the north side of RP 14 with floating screens outboard (Figure 4). By	25X1 25X1 25X1 25X1 25X1 25X1 25X1

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25X1



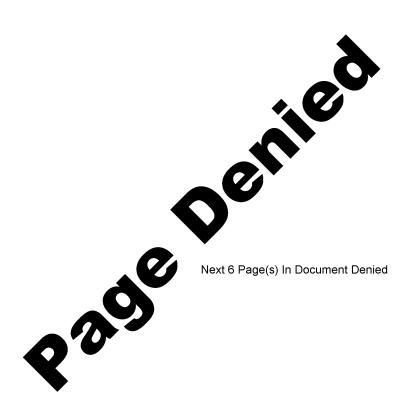
### Submarine Probable Reactor Vault Components

ne sections were next seen on on the rail spur behind the four-bay construction hall (Figure 6) on the rail spur behind the four-bay construction hall (Figure 6) on the rail spur behind the four-bay construction hall (Figure 6) on the rail spur behind the four-bay construction hall (Figure 6) on the rail spur behind the four-bay construction hall. Snow clearing from the rail lines in addition to the moving of railcars from both lines indicated at the components could have been moved to either construction hall. The outside centerline measurements of the components are  12. (TSR) In addition to these two probable reactor vault base sections, a third, differently confirred component, a side section (Figure 7) was identified as being associated with the submarine probable actor vault base sections. The curvature of the structural framework of this open-ended component is milar to that of submarine outer hull plates seen at the shipyard; however, the framework appeared to be milar to that of the two originally identified probable vault base sections. This side section was observed the rail line leading into the four-bay construction hall on the component do been moved to the rail spur behind the four-bay construction hall where it remained through the end the reporting period. The outside width of the side section is while the inside is	25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1
ther Submarine-Related Components	
ctangular cutout was Another possible V-class SSN-related component was observed the railspur behind the four-bay construction hall (Figures 5 and 6). This component was cutout on one end.	25X1 25X1 25X1 25X1 25X1
two probable reactor plates were observed at the pyard, one in area G (Figure 11) and one in area H (Figure 12). The plates were de, and high. The center hole was in diameter and the four outside holes were etters in diameter. The lengthwise center-to-center measurement of the outside holes was while the	25X1 25X1 25X1 25X1 25X1 25X1
nagery Analyst's Comments	
16. (TSR) The probable reactor plates may have been used for the V-III SSN program at Komsolsk. Their exact location within the shipyard has not changed since at least which may dicate a slowdown or probably an end to the Victor program at Komsomolsk. This, combined with the actor vault components which are not associated with any known construction program, may indicate a sift in shipyard emphasis to a possible new submarine construction program.	25X
Table 3.  Dimensional Comparison of India-Class SSAGs  This table in its entirety is classified TOP SECRET RUFF	
Discourt of the state of the st	

Dimension	Unit 1	Unit 2
Waterline length without submersibles		
Beam		
Superstructure length		
Superstructure width		
Forward well length		
Forward well width		
Aft well length		
Aft well width		

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### **Construction Activity** 17. (TSR) Between 25X1 removal of the rails in front of buildingway 1 commost of the rails had been removed, and by all of the rail sections had 25X1 been displaced (Figure 13). Grading activity continued through the end of the reporting period. The purpose of this activity may be to reinforce the area in order to install heavier rails as seen at launch rails 2 through 6. REFERENCES **IMAGERY** (TSR) All usable KEYHOLE imagery acquired between 25X1 25X1 was used in the preparation of this report. MAPS OR CHARTS SAC. US Air Target Chart, Series 200, Sheet 0204-8, scale 1:200,000 (UNCLASSIFIED) DOCUMENT 1. NPIC. RCA-09/0004/79, Komsomolsk Amur 199 ( Shipyard Activities, 1978) (TSR), Feb 79 (TOP SECRET IAR-A087/79, First Identification of Submarine Probable Reactor Vault Components, USSR (TSR), Nov. 79 (TOP SECRET 25X1 IAR-0045/80. Vault Components for New Generation Submarine Reactors (TSR), Apr 80 (TOP SECRET REQUIREMENT **COMIREX J01** Project 200022DJ (S) Comments and queries regarding this report are welcome. They may be directed to Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC

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